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Authorization and Evaluation Division
Federal Communications Commission
7435 Oakland Mills Road,
Columbia, MD 21046

Reference FCC ID: NEN-IW9000

Subject: Permissive changes for direct-sequence spread-spectrum transmitter under Provisions 2.1001

Dear Sir or Madam:

Please advise us on whether we need to file an application for permissive changes or a new grant for some changes in our previously certified spread-spectrum transmitter (FCC ID: NEN-IW9000). The transmitter has the following changes:

1. Radio module and antenna: (circuit board remains the same with some component changes).
 - a. Antenna was shortened from 1/2 wavelength (6.5") to 1/4 wavelength (3.5").
 - b. Antenna matching circuit was changed to match the 3.5" antenna.
 - c. 6 dB bandwidth was increased from 1 MHz to 1.9 MHz.
 - d. RF transmitter power and power density

Frequency	Radiated Tx Power (mW)		Tx Power density (mW)		
	Old	New	Old	New	Limit
905.8	119.4	75	2.9	2.3	6.3
915.9	108.9	119.4	4.5	5.1	6.3
924	88.5	75	2.4	4.4	6.3

Notes:

- a. The frequency range remains the same (from 905 to 925 MHz).
 - b. The spread-spectrum chip (16 chips/bit) was not changed. The chip was originally designed by Cylink and licensed to other companies.)
2. Baseband circuit board
 - a. EPROM was replaced by Flash Memory.
 - b. Two chips for data terminal equipment (DTE) interface were removed.
 - c. One parallel port connector was removed.
 3. Firmware
 - a. Minor changes in interface to application-level software. No change affects the radio transmission characteristics.
 4. Application software residing in a personal computer.
 - a. Windows 95 Network Driver was written to change the applications from cordless printer and modems sharing to cordless data network.

Thank you very much for your assistance and look forward to hearing from you. If you have any questions, please feel free to call me at 408-588-9701.

Sincerely,

Li-Cheng (Richard) Zai
Senior Manager
Communication Systems Development